

IN THE CLAIMS:

Please AMEND claims 1-12 and 14-22;

Please CANCEL claim 13, without prejudice or disclaimer; and

Please ADD claims 23-38, as shown below.

1. (Currently Amended) ~~An internet protocol based~~ A system, comprising:
a plurality of entities,
wherein at least two of said entities are configured to use stream control
transmission protocol for signaling therebetween,
wherein said stream control transmission protocol signaling comprises a source
port number, a destination port number, data, and connection identity information relating
to a connection between at least two of said entities, and
wherein said connection identity information identifies the ultimate destination of
said data.
2. (Currently Amended) ~~A system as claimed in claim 1~~ The apparatus of claim
21, wherein said connection identity information comprises address information.
3. (Currently Amended) ~~A system as claimed in~~ The apparatus of claim 2,
wherein said address information identifies at least one other further entity.

4. (Currently Amended) ~~The apparatus of claim 21~~A system as claimed in claim 1, wherein said connection identity information comprises information identifying an application.

5. (Currently Amended) ~~The apparatus of claim 21~~A system as claimed in claim 1, wherein said connection identity information identifies a connection flow.

6. (Currently Amended) ~~The apparatus of claim 21~~A system as claimed in claim 1, wherein said connection identity information is provided in a stream control transmission protocol packet.

7. (Currently Amended) ~~A system as claimed in~~The apparatus of claim 6, wherein said connection identity information is provided in the data chunk part of the stream control transmission protocol packet.

8. (Currently Amended) ~~A system as claimed in~~The apparatus of claim 7, wherein said connection identity information is provided in a payload protocol identifier field.

9. (Currently Amended) ~~A system as claimed in~~The apparatus of claim 7, wherein said connection identity information is provided in a field between a stream sequence number field and user data.

10. (Currently Amended) ~~A system as claimed in~~ The apparatus of claim 6, wherein said connection identity information is provided in a header for the stream control transmission protocol packet.

11. (Currently Amended) ~~A system as claimed in~~ The apparatus of claim 6, wherein said address information is provided in a separate field in said stream control transmission protocol packet.

12. (Currently Amended) ~~A system as claimed in claim 1~~ The apparatus of claim 21, wherein ~~at least one of the two entities~~ the transmitter is configured to provide further address information relating to at least one of ~~said two entities~~ the apparatus or the another entity.

13. (Cancelled)

14. (Currently Amended) The apparatus of claim 21 ~~A system as claimed in claim 1~~, wherein ~~at least one of said two entities comprises~~ further comprising:

~~a set-up unit~~ processor configured to set up stream control transmission protocol associations.

15. (Currently Amended) ~~A system as claimed in claim 1~~ The apparatus of claim 21, wherein ~~at least one of said two entities comprises~~ further comprising:

a ~~receiving unit~~ receiver configured to receive status information relating to stream control transmission protocol associations.

16. (Currently Amended) ~~A system as claimed in claim 1~~ The apparatus of claim 21, wherein ~~at least one of said two entities comprises a forwarding unit~~ the transmitter is further configured to forward stream control transmission protocol packets to a radio network layer in dependence on said connection identity information.

17. (Currently Amended) ~~A system as claimed in claim 1~~ The apparatus of claim 21, wherein ~~at least one of said two entities comprises~~ further comprising:

a processor ~~an adding unit~~ configured to add said connection identity information to a stream control transmission protocol packet.

18. (Currently Amended) ~~A system~~ The apparatus as claimed in claim 13, wherein said further entity comprises at least one of the following:

- user terminal,
- user,
- group of users,
- service,
- network, or part of network,

-server, or

-cell or base transceiver station.

19. (Currently Amended) ~~A system~~ The apparatus as claimed in claim 21, wherein ~~one of said entities~~ the apparatus is one of the following:

base station; controller; radio network controller; core network; radio network access server; gateway; or server.~~server~~,

~~and wherein the other of said entities is one of the following:~~

~~base station; controller; radio network controller; core network; radio network access server; gateway; or server.~~

20. (Currently Amended) ~~A method for use in an internet protocol based system comprising a plurality of entities, the method comprising:~~

sending stream control transmission protocol transport signaling information ~~between two of said entities~~ from an entity to another entity,

wherein said stream control transmission protocol signaling information comprises a source port number, a destination port number, data, and connection identity information relating to a connection between said two entities, and

wherein said connection identity information identifies the ultimate destination of said data.

21. (Currently Amended) ~~An entity for use in a internet protocol based system~~An apparatus, said entity comprising:

a ~~transmission unit~~ transmitter configured to send to another entity a stream control transmission protocol transport packet,

wherein said ~~entity~~ transmitter is configured to include in said packet a source port number, a destination port number, data, and connection identity information relating to a connection between the entity and the another entity, and

wherein said connection identity information identifies the ultimate destination of said data.

22. (Currently Amended) ~~An entity for use in a internet protocol based system~~An apparatus, said entity comprising:

sending means for sending to another entity a stream control transmission protocol transport packet; and

~~wherein said entity is configured to include~~ including means for including in said packet a source port number, a destination port number, data, and connection identity information relating to a connection between the entity and the another entity, ~~and~~

wherein said connection identity information identifies the ultimate destination of said data.

23. (New) The method of claim 20, wherein said connection identity information comprises address information.

24. (New) The method of claim 23, wherein said address information identifies at least one other further entity.

25. (New) The method of claim 20, wherein said connection identity information comprises information identifying an application.

26. (New) The method of claim 20, wherein said connection identity information identifies a connection flow.

27. (New) The method of claim 20, wherein said connection identity information is provided in a stream control transmission protocol packet.

28. (New) The method of claim 27, wherein said connection identity information is provided in the data chunk part of the stream control transmission protocol packet.

29. (New) The method of claim 28, wherein said connection identity information is provided in a payload protocol identifier field.

30. (New) The method of claim 28, wherein said connection identity information is provided in a field between a stream sequence number field and user data.

31. (New) The method of claim 27, wherein said connection identity information is provided in a header for the stream control transmission protocol packet.

32. (New) The method of claim 27, wherein said address information is provided in a separate field in said stream control transmission protocol packet.

33. (New) The method of claim 20, further comprising:
providing further address information relating to at least one of the entity or the another entity.

34. (New) The method of claim 20, further comprising:
setting up stream control transmission protocol associations.

35. (New) The method of claim 20, further comprising:
receiving status information relating to stream control transmission protocol associations.

36. (New) The method of claim 20, further comprising:
forwarding stream control transmission protocol packets to a radio network layer in dependence on said connection identity information.

37. (New) The method of claim 20, further comprising:

adding said connection identity information to a stream control transmission protocol packet.

38. (New) A computer-readable medium encoded with instructions that, when executed perform a process, the process comprising:

sending stream control transmission protocol transport signaling information from an entity to another entity,

wherein said stream control transmission protocol signaling information comprises a source port number, a destination port number, data, and connection identity information relating to a connection between said two entities, and

wherein said connection identity information identifies the ultimate destination of said data.